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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|--|-----------------|----------------------|-------------------------|------------------|
| 10/051,392 | 01/16/2002 | Michael J. Yancey | WEYE118528/24380C | 2980 |
| 28624 | 7590 04/24/2003 | | | |
| WEYERHAEUSER COMPANY INTELLECTUAL PROPERTY DEPT., CH 1J27 P.O. BOX 9777 FEDERAL WAY, WA 98063 | | | EXAMINER | |
| | | | NGUYEN | N, TU C |
| rederal w | A1, WA 98003 | | ART UNIT | PAPER NUMBER |
| | | | 3749 | |
| | | | DATE MAILED: 04/24/2003 | k |

Please find below and/or attached an Office communication concerning this application or proceeding.

| | · · · · · · · · · · · · · · · · · · · | | | | | |
|---|--|--|--|--|--|--|
| | Application No. | Applicant(s) | | | | |
| • | 10/051,392 | YANCEY ET AL. | | | | |
| Office Action Summary | Examiner | Art Unit | | | | |
| , | Tu C. Nguyen | 3749 | | | | |
| Th MAILING DATE of this communication app Period for Reply | ars on the cov r sh t with the c | corr spond nce addr ss | | | | |
| A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status | 36(a). In no event, however, may a reply be ting within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE | nely filed rs will be considered timely. I the mailing date of this communication. D (35 U.S.C. § 133). | | | | |
| 1) Responsive to communication(s) filed on 16 J | lanuary 2002 . | | | | | |
| 2a) This action is FINAL . 2b) ⊠ Th | is action is non-final. | | | | | |
| 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. | | | | | | |
| Disposition of Claims | | | | | | |
| 4) Claim(s) 1-18 is/are pending in the application | | | | | | |
| 4a) Of the above claim(s) <u>2-4 and 12</u> is/are with | iurawn nom consideration. | | | | | |
| | | | | | | |
| 6) Claim(s) 1.5 and 10 is/are rejected. 7) Claim(s) 6-9.11 and 13-18 is/are objected to. | | | | | | |
| 8) Claim(s) are subject to restriction and/o | r election requirement | | | | | |
| Application Papers | , closus in requirements | | | | | |
| 9) The specification is objected to by the Examine | r. | | | | | |
| 10) The drawing(s) filed on is/are: a) □ accep | oted or b) objected to by the Exa | miner. | | | | |
| Applicant may not request that any objection to the | e drawing(s) be held in abeyance. S | see 37 CFR 1.85(a). | | | | |
| 11)☐ The proposed drawing correction filed on | _is: a)□ approved b)□ disappro | oved by the Examiner. | | | | |
| If approved, corrected drawings are required in rep | bly to this Office action. | | | | | |
| 12) ☐ The oath or declaration is objected to by the Ex | aminer. | | | | | |
| Priority under 35 U.S.C. §§ 119 and 120 | | | | | | |
| 13) Acknowledgment is made of a claim for foreign | n priority under 35 U.S.C. § 119(a | a)-(d) or (f). | | | | |
| a) ☐ All b) ☐ Some * c) ☐ None of: | | | | | | |
| 1. Certified copies of the priority documents | 1. Certified copies of the priority documents have been received. | | | | | |
| 2. Certified copies of the priority documents | | | | | | |
| 3. Copies of the certified copies of the priorapplication from the International Bu* See the attached detailed Office action for a list | reau (PCT Rule 17.2(a)). | | | | | |
| 14) Acknowledgment is made of a claim for domesti | c priority under 35 U.S.C. § 119(| e) (to a provisional application). | | | | |
| a) ☐ The translation of the foreign language pro 15)☐ Acknowledgment is made of a claim for domest | | | | | | |
| Attachment(s) | | | | | | |
| Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s) | 5) Notice of Informal | y (PTO-413) Paper No(s) Patent Application (PTO-152) | | | | |
| S. Patent and Trademark Office | | | | | | |

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DETAILED ACTION

Response to Amendment

Applicant's election without traverse of Figure 2 corresponding to claims 1, 5-11, 13-18 in Paper No. 5 is acknowledged.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 1 is rejected under 35 U.S.C. 103(a) as being unpatentable over Marsh (U.S. Patent No. 4,253,822) in view of Chung (U.S. Patent No. 3,440,135). Marsh discloses in the single figure a high turbulence dryer (2), a burner (1), and a cyclone separator (3) for drying pulp. The burner (1) receives recycled air from inlet (6) and fuel from inlet (4) terminating in a jet (5) mixes it with fresh air from inlet (7) and exhausts substantially fresh air to outlet (9) which joins a pulp inlet passage (19) before passing through an inlet aperture (20) into the dryer (2) and exits at passage (24) leading to the cyclone separator (3). The cyclone separator (3) has an outlet (26) for dried pulp product and a pipe (27) for air outlet. Marsh lacks the teaching of the pulp supply including a crosslinking treatment to the pulp. Chung discloses in Figure 1 a schematic representation of the process for producing crosslinked fibers including the pulp is fed into the reaction chamber for drying and curing. Chung teaches the air dry pulp (1) directed in mat form

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to an aqueous solution of a crosslinking impregnant (3) contained in the tank (2). Therefore it would have been obvious to one of ordinary skill in the art to include the crosslinking treatment suggested by Chung in Marsh's pulp supply source as such would provide stiffness to the pulp.

Claim 10 is rejected under 35 U.S.C. 103(a) as being unpatentable over Marsh, as modified above, in view of Harding (U.S. Patent No. 4,110,195). Marsh discloses in the single figure a high turbulence dryer (2) for drying pulp, as modified above, comprising elements as recited but does not teach the pulp supply further having a feed device set forth in this claim. Harding discloses in Figure 5 a pulp feed device from which pulp inters through inlet (370) and is rotating around annular space (375) by vanes (376) on rotor (377). Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to include the pulp feed device taught by Harding and apply it in Marsh's pulp supply station as such would assist in feeding the pulp continuously in a consistent matter and at a desired rate.

Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Marsh, as modified above, in view Kurtz (U.S. Patent No. 5,176,793). Marsh discloses in the single figure a high turbulence dryer (2) for drying pulp, as modified above, comprising elements as recited but does not teach pulp supply further having a first dewatering device in flow communication with a second dewatering device set forth in these claims. Kurtz discloses in Figure 1 watering device comprising pulp supply inlet (2), first dewater device (3) and a second dewatering stage in form of a screw press (4). Therefore it would have been obvious to one of ordinary skill in the art during the time of the invention to apply the plurality of dewatering treatment stages suggested by Kurtz in Marsh's pulp supply station as such various zones would provide higher pulp consistency of the treated final product.

Claims 6-9, 11, 13-18 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Kurtz of U.S. Patent No. 5,176,793 discloses in Figure 1 watering device comprising pulp inlet (2), first dewater device (3) and a second dewatering stage in form of a screw press (4) but does not teach a treatment recycle conduit in flow communication between the first and the second dewatering devices.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tu C. Nguyen whose telephone number is 703-305-0537. The examiner can normally be reached on (M-F) 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ira S. Lazarus can be reached on 703-308-1935. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9302 for regular communications and 703-872-9303 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-1148.

Tu C. Nguyen April 17, 2003

> Supervisory Patent Examiner Group/37/20